Minnesota's Lake Superior Beach Monitoring and Notification Program – an Evaluation Cindy Hakala Minnesota Department of Health



Notification and Outreach Goal

"Provide audience members information and tools to facilitate healthy water recreation decisions"

- Minnesota Pollution Control Agency, year unknown

Notification Methods



Refer to Advice for further water contact recommendations.

www.MNBeaches.org

Outreach Methods



- Evaluation includes past outreach efforts
- Flyers, website, etc.
- Key messages

Purpose of Evaluation

- Assess fulfillment of goal
- Understand beachgoer perceptions
- Improve programming
- Required by EPA

Methods

- Formative evaluation
- Inclusion criteria
- 6 days in August 2014
- Quantitative survey
- In-person survey interviews
- Chi-square Goodness of Fit analysis
- Interested in tourist vs. locals, etc.

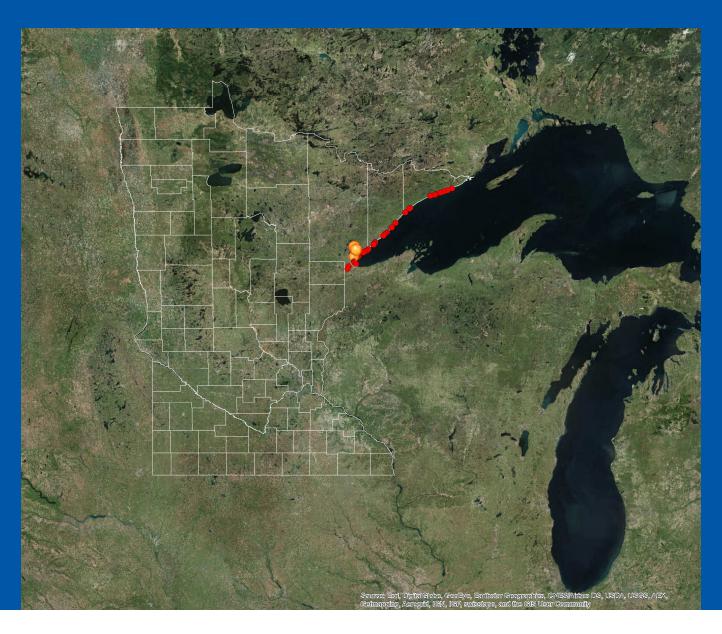


Definitions

- Tourist
- Local
- Advisory
- Visit frequency



Um, Duluth is where now?





Evaluation Areas



- Awareness
- Knowledge
- Risk perception
- Ways to improve

Results



Demographics (n=61)

Gender

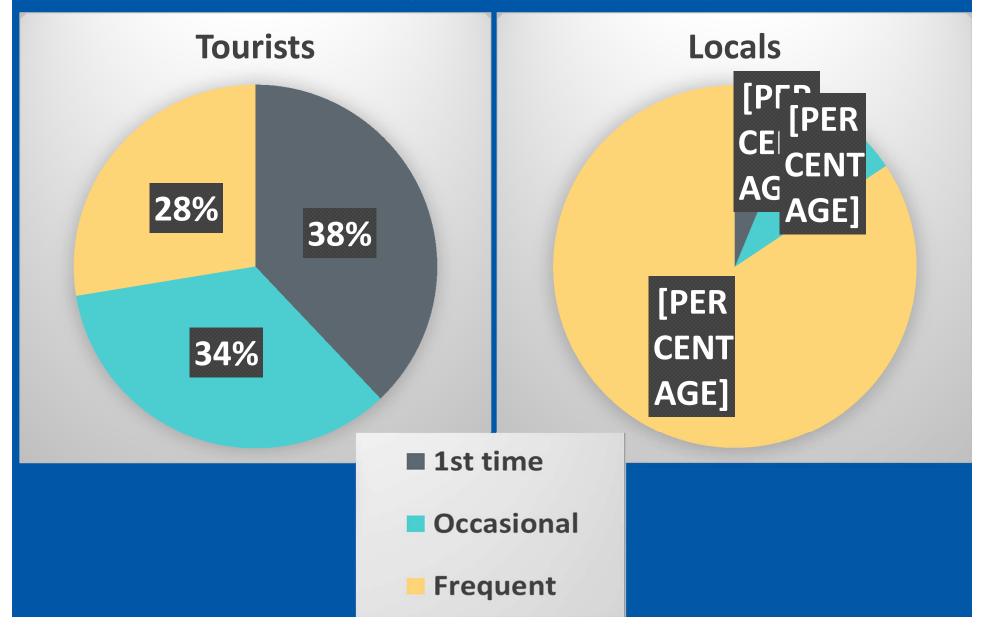
Male	25	41%
Female	36	59%

Age

29 & under	27	44%
30 - 49	25	41%
50 & up	8	13%
Refuse	1	2%



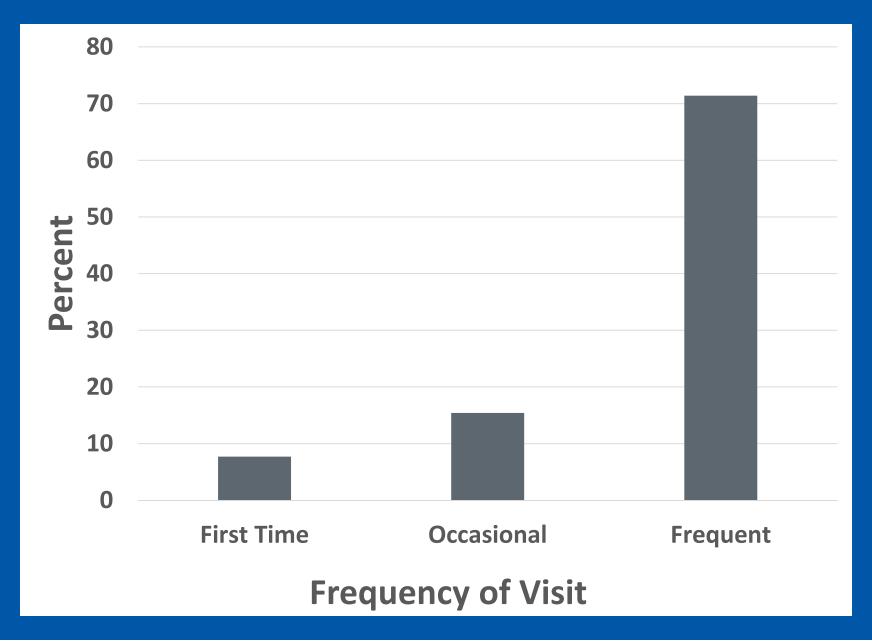
Visit Frequency and Residency (n=61)



Evaluation Questions - Awareness

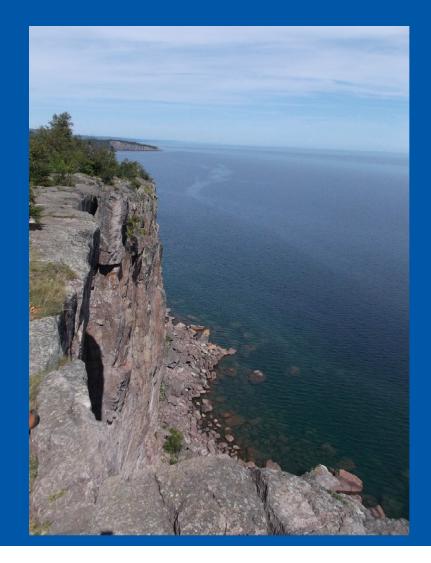


Heard of Beach Advisories (n=61)

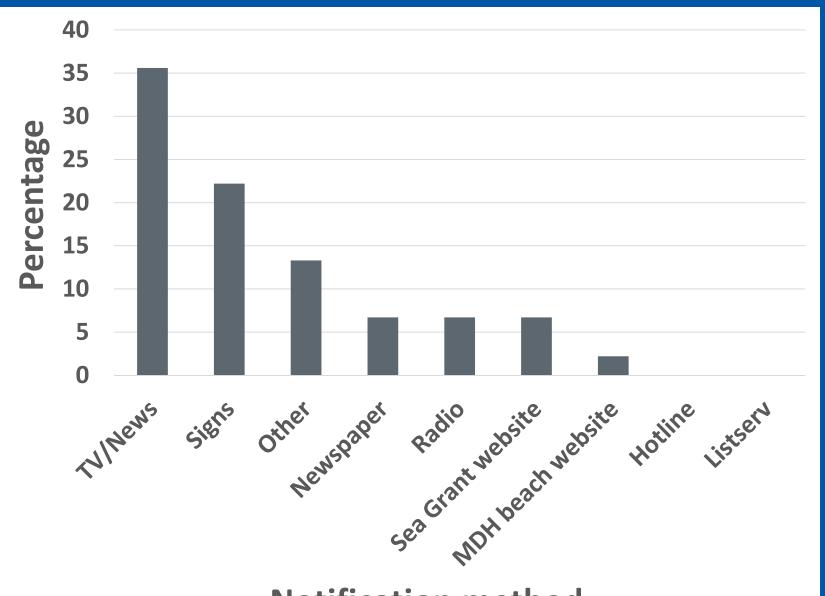


Heard of MN Lake Superior Beach Program

5 people



Ways of Learning of Beach Advisories (n=45)



Notification method

Evaluation Questions - Knowledge



Water Safety Recommendation Knowledge (n=61)

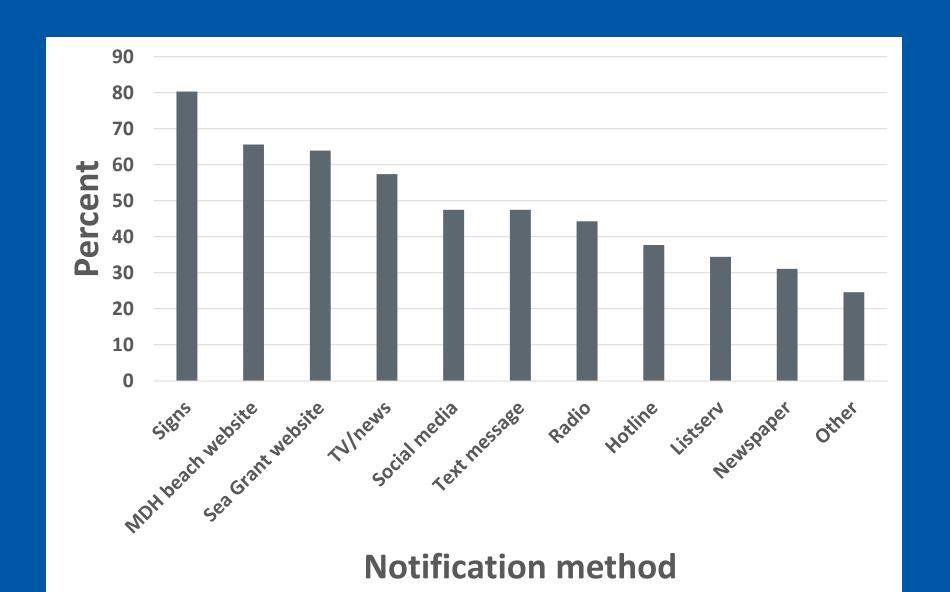
		<u>Not</u>	<u>v</u>	<u>'ery</u>
<u>Question</u>	N/A	important I	<u>mportant</u> <u>ir</u>	<u>mportant</u>
 Stay away from storm drains, trash and other pollutants such as oil slicks Wait 24 hours before swimming after a heavy rain 	0.0% 29.5%		21.3% 31.1%	78.7% 13.1%
 Take your children for frequent bathroom breaks and wash your hands Shower after swimming or playing at the beach 	8.2% 4.9%		39.3% 47.5%	44.3% 34.4%
 Keep your face and head out of the water or wear ear plugs and goggles 	14.7%		24.6%	9.8%
Avoid swallowing beach water	1.6%	8.2 %	49.2%	41.0%

Risk Perception

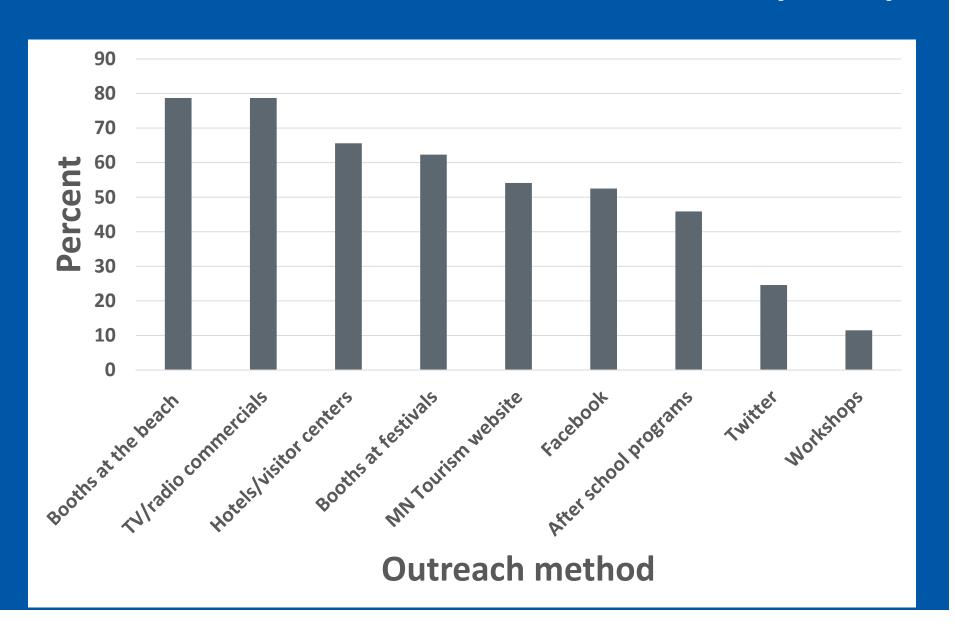
Not at all or a little risky: 85.3%



Notification Resources for Future (n=61)



Outreach Resources for Future Use (n=61)

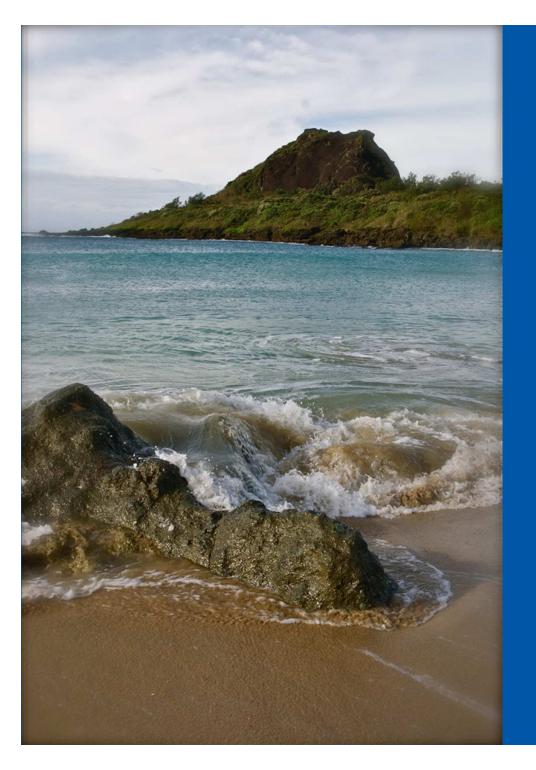


Conclusions Awareness and Knowledge

- Majority of respondents were frequent visitors
- Frequent visitors were more aware of beach advisories
- Frequent visitors mostly learned of advisories through
 TV news and signs
- Previous surveys identified varying knowledge of advisories
- News releases and signs important tools for advisory notification
- Discrepancy in what people say they've used and what they want to use

More ways to improve

- Explore text message updates and social media
- Advertise websites more people want to use them
- Streamline messages
- More dedicated staff time at beach and festival booths
- Need to reach out to tourists more
 - Link to Beach Program on MN Tourism website
 - Provide information at hotels and visitor centers



Limitations

- Results not generalizable
- Non-exclusive categories for visit frequency
- Less weekend survey days due to weather

Future Directions

Ask questions with scaled response

 Ask respondents if they sought information regarding water quality prior to coming to the beach that day



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